Special Issue

Gene Delivery Vectors and Physical Methods: Present and Future Trends

Message from the Guest Editor

The past few decades have witnessed the evolution of gene medicine from an experimental technology into a viable strategy for developing therapeutics for a wide range of disorders. One of the significant advantages of nucleic acid drugs over currently available low-molecular-weight pharmaceuticals is their selective recognition of molecular targets and pathways, which imparts tremendous specificity of action. Despite such potential, therapeutic success still largely depends on the development of safe and effective ways to deliver nucleic acids within targeted cells. Gene delivery technologies are therefore in the limelight. Moreover, high-throughput technologies—that is, a reliable tool for pre-clinical testing and further improvement of gene delivery vectors and/or nucleic acid drugs—continue to be developed.

The possible topics include, but are not limited to the following:

Non-viral gene delivery vectors
Viral gene delivery vectors
Electroporation technology
Sonoporation technology
Photoporation technology
Magnetofection technology
Hydroporation technology
Biolistic or gene gun technology
High-throughput gene delivery technologies

Guest Editor

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